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Certificate

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of Correction

Date:

December 19, 2005

To:

U.S. Patent and Trademark Office

Attention:

Certificate of Correction

Facsimile No.:

1-571-273-8300

Verification No.: 1-703-305-8309

Client No.:

41890-01280

From:

Valerie L. Perry

Message:

Number of pages following this cover sheet:

If you need a confirmation or any of the pages sent again, please call our office at the following number: 303-338-0997. SENT BY: Valerie

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Patent of:

HAMPDEN-SMITH et al.

POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES

INCORPORATING SAME"

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Date: December 1, 2005

Dear Sir:

In reviewing our file, we note that a Certificate of Correction has not been received in connection with the Request for Certificate of Correction of Patent which was mailed on April 15, 2005. Enclosed please find a copy of the Request for Certificate of Correction of Patent and the postcard received from the U.S. Patent and Trademark Office confirming receipt of the Request for Certificate of Correction. Applicant respectfully requests a status update with regard to the aboveidentified patent at your earliest convenience.

Respectfully submitted,

MARSH FISCHMANN & BREYFOGLE LLP

By: David F. Dockery

Registration No. 34,323

3151 South Vaughn Way, Suite 411

Aurora, Colorado 80014

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Page 1 of 1

BEST AVAILABLE COPY

REQUEST FOR STATUS OF CERTIFICATE OF CORRECTION Patent No.: 6,875,372 B1 Issued: April 5, 2005 CERTIFICATE OF FACSIMILE TRANSMISSION Confirmation No.: 7916 I hereby certify that this paper is being transmitted via focsimile to the U.S. Patent and Trademark Office on the Atty. File No.: 41890-01280 date shown below. Print or Type Name: For "CATHODOLUMINESCENT PHOSPHOR

RECEIVED CENTRAL FAX CENTER

DEC 1 9 2005

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Patent of: REQUEST FOR CERTIFICATE OF HAMPDEN-SMITH et al. CORRECTION OF PATENT FOR PTO MISTAKE Patent No.: 6,875,372 B1 (37 C.F.R. 1.322(a)) Issued: April 5, 2005 Confirmation No.: 7916 CERTIFICATE OF MAILING Atty. File No.: 41890-01280 HILBREY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVIRLOPE For: "CATHODOLUMINESCENT PHOSPHOR POWDERS, METHODS MARIII FISCIMANN & BREYFOGLE LLF FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This is a request for a Certificate of Correction for PTO mistake under 37 C.F.R. 1.322(a). The errors in the patent are obvious typographical errors or omissions and the correct wording can be found in the Terminal Disclaimer having a mailing date of February 4, 2004, the original specification at Page 16, line 11, Page 24, line 14, Page 45, line 6, Page 68, line 15, Page 71, line 11, and Page 92, line 17, or the Response to Examiner's Action dated November 15, 2002, at Page 5, line 7. Attached is form PTO 1050 in duplicate along with copies of documentation that unequivocally supports patentee's assertion(s).

This is also a request in relation to the above-identified U.S. Patent for issuance of a Certificate of Correction for Applicant's mistake. The errors in the patent are obvious typographical errors. Attached in duplicate is form PTO 1050 and a check in the amount of \$100.00 to cover the fee set forth in 37 C.F.R. Section 1.20(a). Please credit any over-payment or debit any underpayment

Respectfully submitted,

MARSH FISCHMANN & BREYFOGLE LLP

David F. Dockery

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3151 South Vaughn Way, Suite 411

Aurora, Colorado 80014

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Date: April 15, 2005

16:25

to Deposit Account No. 50-1419.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO.: 6,875,372 B1 DATED: April 5, 2005

INVENTOR(S): HAMPDEN-SMITH et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Title Page

Section (*), insert -- This patent is subject to a terminal disclaimer.--

Column 1

Line 6, insert the following paragraph:

-STATEMENT REGARDING FEDERALLY-SPONSORED RESEARCH/DEVELOPMENT This invention was made with Government support under contracts N00014-95-C-0278 and N00014-96-C-0395 awarded by the Office of Naval Research. The Government has certain rights in the invention.--

Column 9

Line 64, delete "a".

Column 14

Line 41, delete "atomizaton", and insert therefor -- atomization --.

Column 26

Line 32, delete "vaporizaton", and insert therefor --vaporization--.

Column 39

Line 51, delete "br", and insert therefor --or--.

Page 1 of 2

MAILING ADDRESS OF SENDER:

PATENT NO. 6,875,372 B1

David F. Dockery Registration No. 34,323 MARSH FISCHMANN & BREYFOGLE LLP 3151 South Vaughn Way, Suite 411 Aurora, Colorado 80014 303-338-0997

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FORM PTO-1050

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,875,372 B1 DATED : April 5, 2005

INVENTOR(S): HAMPDEN-SMITH et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 41

Line 22, delete "particulary", and insert therefor -- particularly --.

Column 45

Line 12, delete "10", and insert therefor --10--.

Column 46

Line 5, delete "siid", and insert therefor -- said --.

Page 2 of 2

MAILING ADDRESS OF SENDER: David F. Dockery Registration No. 34.323 MARSH FISCHMANN & BREYFOGLE LLP 3151 South Vaughn Way, Suite 411 Aurora, Colorado 80014 303-338-0997

PATENT NO. 6,875,372 B1

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FORM PTO-1050

Terminal Disclain. fo Obviate A Double Patenting Rejection Over A Prior Patent			Docket No. 41890-01280
in Re Application Of: Hampden-Smith et al.			
Serial No. 09/751,341	Filing Date December 29, 2000	Examiner Carol M. Koslow	Group Art Unit 1755
invention: CATHODOLUMINESCE DEVICES INCORPORAT		METIIODS FOR MAKING PHOS	SPHOR POWDERS AND
Owner of Record:			CENTRAL FAX
Superior MicroPowders, I	TC		DEC 1 9 2
	TO THE COMMISSI	ONER FOR PATENTS:	
In making the ebo application that would extend patent, as presently shortens unenforceable, is found inval C.F.R. 1.321, has all claim	I to the expiration date of the full at ad by any terminal disclaimer, in the ld by a court of competent jurisdiction	at disclaim the terminal part of any actions term as defined in 35 U.S.C. event that it later expires for failure to an, is statutorily disclaimed in whole of entificate, is reissued, or is in any actions.	154 to 158 and 173 of the prior o pay a maintenance (se, is held or terminally disclaimed under 37
Check either box 1	or 2 below, if appropriate.	•	
 For submissions or undersigned is empowered to 	behalf of an organization (e.g., or a behalf of the organization.	corporation, partnership, university,	government agency, etc.), the
and belief are believed to be the like so made are punishs	true; and further that these statements or boil	own knowledge are true and that all a ents were made with the knowledge n, under Section 1001 of Title 18 of the plication or any patent issued thereor	that willful false statements and the United States Code and that
2. 🖄 The undersigned is:	an attorney of record.		
DIT		Oated: Feb. 4, 2004	
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	Printed Neme		
PTO auggested word	ice under 37 C.F.R. 1.20(d) includer fing for terminal discraimer was und 7 C.F.R. 3,73(b) is required if termin		98.

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in Re Application Of; Hampden-Smith et al.			
Serial No.	Filing Date	Examiner	Group Art Unit
09/751,341	December 29, 2000	Carol M. Koslov	v 1755 ·
Invention: CATHODOLUMINESCE DEVICES INCORPORA		METHODS FOR MAKIN	C PHOSPHOR POWDERS AND
Owner of Record:			RECE CENTRAL FA
Superior MicroPowders, 1	ric		DEC 1
	TO THE COMMISS	ONER FOR PATENTS:	
disclaimer, of prior Patent N enforceable only for and du granted on the Instant applic in making the abx application that would exten patent, as presently shorten unenforceable, is found inva C.F.R. 1.321, has all claim expiration of its full statutory Chack either box 1 1. For submissions o undersigned is empowered t I hereby declare the and belief are believed to be the like so made are punish euch wiliful false statements	o. 6.168,731. The owner herelying such period that it and the privation and is binding upon the grant over discialmer, the owner does not to the expiration date of the full sed by any terminal discialmer, in the lid by a court of competent jurisdict as cancelled by a reexamination of term as presently shortened by any or 2 below, if appropriate. In behalf of an organization (e.g., o act on behalf of the organization. It all statements made herein of my inter; and further that these statements are the organization.	by agrees that any patent so or patent are commonly own ea, its successors and/or as not disclaim the terminal patentory term as defined in a second that it later expires to ion, is statutorily disclaimed cartificate, is released, or it is reminal disclaimer. corporation, partnership, use own knowledge are true an eans were made with the krith, under Section 1001 of Ti	It of any patent granted on the instance to U.S.C. 154 to 156 and 173 of the prior of fallure to pay a maintenance fee, is held in whole or terminally disclaimed under 3 is in any manner terminated prior to the inversity, government agency, etc.), the distant all statements made on information to the 18 of the United States Code and the
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David	F. Dockery		
Terminal disclaimer PTO suggested wor	v Prinsd Name fee under 37 C.F.R. 1.20(d) includ- ding for terminal discisimer was un 7 C.F.R. 3.73(b) is required if termi	changed.	, ne asslance.

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transducer housing 122. The transducer housings 122 are mounted to a transducer mounting plate 124, creating an array of the ultrasonic transducer discs 120. Any convenient spacing may be used for the ultrasonic transducer discs 120. Center-to-center spacing of the ultrasonic transducer discs 120 of about 4 centimeters is often adequate. The aerosol generator 106, as shown in Fig. 2, includes forty-nine transducers in a 7 x 7 array. The array configuration is as shown in Fig. 3, which depicts the locations of the transducer housings 122 mounted to the transducer mounting plate 124.

With continued reference to Fig. 2, a separator 126, in spaced relation to the transducer discs 120, is retained between a bottom retaining plate 128 and a top retaining plate 130. Gas delivery tubes 132 are connected to gas distribution manifolds 134, which have gas delivery ports 136. The gas distribution manifolds 134 are housed within a generator body 138 that is covered by generator fld 140. A transducer driver 144, having circuitry for driving the transducer discs 120, is electronically connected with the transducer discs 120 via electrical cables 148.

During operation of the aerosol generator 106, as shown in Fig. 2, the transducer discs 120 are activated by the transducer driver 144 via the electrical cables 146. The transducers preferably vibrate at a frequency of from about 1 MHz to about 5 MHz, more preferably from about 1.5 MHz to about 3 MHz. Commonly used frequencies are at about 1.6 MHz and about 2.4 MHz. Furthermore, all of the transducer discs 110 should be operating at substantially the same frequency when an aerosol with a narrow droplet size distribution is desired. This is important because commercially available transducers can vary significantly in thickness, sometimes by as much as 10%. It is preferred, however, that the transducer discs 120 operate at frequencies within a range of 5% above and below the median transducer frequency, more preferably within a range of 2.5%, and most preferably within a range of 1%. This can be accomplished by careful selection of the transducer discs 120 so that they all preferably have thicknesses within 5% of the median

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An alternative, and preferred, flow for carrier gas 104 is shown in Fig. 14. As shown In Fig. 14, carrier gas 104 is delivered from only one side of each of the gas tubes 208. This results in a sweep of carrier gas from all of the gas tubes 208 toward a central area 212. This results in a more uniform flow pattern for serosol generation that may significantly enhance the efficiency with which the carder gas 104 is used to produce an aerosol. The aerosol that is generated, therefore, tends to be more heavily loaded with liquid droplets.

Another configuration for distributing carrier gas in the aerosol generator 106 is shown in Figs. 15 and 16. In this configuration, the gas tubes 208 are hung from a gas distribution plate 216 adjacent gas flow holes 218 through the gas distribution plate 216. In the aerosol generator 106, the gas distribution plate 216 would be mounted above the liquid feed, with the gas flow holes positioned to each correspond with an underlying ultrasonic transducer. Referring specifically to Fig. 16, when the ultrasonic generator 108 Is in operation, atomization cones 162 develop through the gas flow holes 218, and the gas tubes 208 are located such that carrier gas 104 exiting from ports in the gas tubes 208 impings on the atomization cones and flow upward through the gas flow holes. The gas flow holes 218, therefore, act to assist in efficiently distributing the carrier gas 104 about the atomization cones 162 for aerosol formation. It should be appreciated that the gas distribution plates 218 can be made to accommodate any number of the gas tubes 208 and gas flow holes 218. For convenience of liustration, the embodiment shown in Figs. 15 and 16 shows a design having only two of the gas tubes 208 and only 1,6 of the gas flow holes 218. Also, it should be appreciated that the gas distribution plate 216 could be used alone, without the gas tubes 208. In that case, a slight positive pressure of carrier gas 104 would be maintained under the gas distribution plate 216 and the gas flow holes 218 would be 25 sized to maintain the proper velocity of carrier gas 104 through the gas flow holes 218 for efficient perosol generation. Because of the relative complexity of operating in that mode,

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due to thermophoresis. Fewer aerosol droplets would, therefore, be likely to impinge on conduit wells or other surfaces making the transition to the furnace.

Another way to reduce the potential for undestrable liquid buildup is to introduce a dry gas into the aerosol between the aerosol generator and the furnace. Referring now to Fig. 35, one embodiment of the process is shown for adding a dry gas 118 to the aerosol 108 before the furnace 110. Addition of the dry gas 118 causes vaporization of at least a part of the moisture in the aerosol 108, and preferably substantially all of the moisture in the aerosol 108, to form a dried serosol 119, which is then introduced into the furnace 110.

The dry gas 118 will most often be dry air, although in some instances it may be desirable to use dry nitrogen gas or some other dry gas. If a sufficient quantity of the dry gas 118 is used, the droplets of the aerosol 108 are substantially completely dried to beneficially form dried precursor particles in aerosol form for introduction into the furnace 110, where the precursor particles are then pyrolyzed to make a desired particulate product. Also, the use of the dry gas 118 typically will reduce the potential for contact 15 between droplets of the aerosol and the conduit wall, especially in the critical area in the vicinity of the inlet to the furnace 110. In that regard, a preferred method for introducing the dry gas 118 into the serosol 108 is from a radial direction into the serosol 108. For example, equipment of substantially the same design as the quench cooler, described previously with reference to Figs. 29-31, could be used, with the aerosol 108 flowing through the Interior flow path of the apparatus and the dry gas 118 being introduced through perforated wall of the perforated conduit. An alternative to using the dry gas 118 to dry the zerosol 108 would be to use a low temperature thermal preheater/dryer prior to the furnace 110 to dry the aerosol 108 prior to introduction into the furnace 110. This alternative is not, however, preferred.

Still another way to reduce the potential for losses due to liquid accumulation is to operate the process with equipment configurations such that the aerosol stream flows in

deposition methods. Smoother phosphor powder layers are the result of the smaller average particle size, spherical particle morphology and narrower particle size distribution compared to phosphor powders produced by other methods. Smoother phosphor powder layers are valuable in various applications, especially those where the phosphor powders comprise an imaging device where a high resolution is critical. For example, a smoother phosphor powder layer in a display application where the phosphor layer produces light that is photographed results in improved definition and distinction of the photographed image.

A variety of deposition techniques often degrade the properties of the powders, especially brightness. An example is the three roll milling used to form pastes that are photoprinted, screen printed, directly written with a microsyringe and others. A method for increasing the brightness of the phosphor particles once deposited on the surface is to irradiate them with a laser (Argon ion, krypton ion, YAG, excimer, etc...). The laser light increases the temperature of the particles thereby annealing them and increasing the brightness. The laser heating of the particles can be carried out for particles on glass or even polymeric substrates since the laser causes local heating of the particles without heating the glass above its softening point. This approach is useful for phosphors.

The phosphor particle layer deposited onto a surface often needs to be coated to protect the layer from plasmas, moisture, electrons, photons, etc. Coatings can be formed by sputtering, but this requires a mask to avoid deposition onto undesired areas of the substrate. Laser-induced chemical vapor deposition (LCVD) of metal exides and other materials onto particles can allow localized deposition of material to coat phosphor particles without coating other areas. The laser heating of the particles that drives the CVD can be carried out for particles on glass or even polyment substrates because the laser causes local heating of the particles without heating the glase or polymer above its softening point.

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and the number of layers of phosphor panicles which are not involved in the generation of cathodoluminescence. That is, particles which are not excited by the electron beam will only inhibit the transmission of luminescence through the device. Large particles and aggregated particles both form volds and further contribute to loss of light transmission. Significant amounts of light can be scattered by reflection in voids. Further, for a high quality image, the phosphor layer should have a thin and highly uniform thickness. Ideally, the average thickness of the phosphor layer should be about 1.5 times the average particle size of the phosphor particles.

CRT's typically operate at high voltages such as from about 20 kV to 30 kV. Phosphers used for CRT's should have high brightness and good chromaticity. Phosphors which are particularly useful in CRT devices include ZnS:Cu or Al for green, ZnS:Ag. Au or Cl for blue and Y₂O₂S:Eu for red. The phosphor particles can advantageously be coated in accordance with the present invention to prevent degradation of the host material or diffusion of activator ions. Silica or silicate coatings can also improve the rheological. 15 properties of the phosphor slurry. The particles can also include a pigment coalling, such as particulate Fe₂O₃, to modify and enhance the properties of the emitted light.

Other CRT-based devices operating on a similar principle are heads-up and headsdown displays. A heads-up display is a small, high resolution display that is placed in close proximity to the eyes of a user, for example a pilot, so that the display can provide Information to the user without regulring the user to be distracted. Such displays should have high brightness and good resolution. Similarly, heads-down displays are utilized, for example, in airplane cockplis to provide data to the pilots. Such phosphore should also be bright and have a long lifetime. The small, spherical phosphor powders of the present invention are ideatly sulted for such applications.

The introduction of high-definition televisions (HDTV) has increased the interest in projection television (PTV). In this concept, the light produced by three independent

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- 97. A cathodoluminescent display device, comprising:
- a) an excitation source having an excitation potential of not greater than about 5 kV; and
- b) at least a first layer of cathodoluminescent phosphor particles adapted to be etimulated by said excitation source, wherein said phosphor particles have a weight everage particle size of from about 0.1 µm to about 10 µm, a substantially spherical morphology and wherein at least about 60 weight percent of said particles are not larger than about two times said average particle size.
- 98. A cathodoluminescent display device as recited in Claim 97, wherein said phosphor particles have a weight average particle size of from about 0.3 µm to about 5 µm.
 - 99. A cathodoluminescent display device as racited in Claim 97, wherein said particles comprise Y_2O_3 and from about 4 to about 6 atomic percent Eu.
- 100. A cathodoluminescent display device as recited in Claim 97, wherein said particles comprise Zn₂SiO₄ and from about 3.05 to about 2 atomic percent Mn.
- 15 101. A cathodoluminescent device as recited in Claim 97, wherein said particles comprise Y₂SIO₃ and a depart selected from the group consisting of Tb and Ce.
 - 102. A cathodoluminescent device as recited in Claim 97, wherein said particles comprise SrGa₂S₄ end a dopant selected from the group consisting of Eu and Ce.
- 103. A cathodoluminescent display device as recited in Claim 97, wherein said
 20 device is a field emission display.

In the Claims:

- 80. (Amended) A cathodoluminescent device, comprising:
 - a) an excitation source: and
 - b) at least a first layer of cathodoluminescent phosphor particles selected from the group consisting of Y_2O_2S , ZnS, Zn2SiO4, SrGa2S4 and Y_2SiO_5 that are adapted to be stimulated by said excitation source, wherein said phosphor particles have a weight average particle size of from about 0.1 µm to about 10 µm, a substantially spherical morphology and wherein at least about 80 weight percent of said particles are not larger than about two times said average particle size.

Please cancel Claims 85 and 89.

- 97. (Amended) A cathodoluminescent display device, comprising:
 - a) an excitation source having an excitation potential of not greater than about 5 kV; and
 - b) at least a first layer of cathodoluminescent phosphor particles selected from the group consisting of Zn_2SiO_4 , Y_2SiO_6 and $SrGa_2S_4$ that are adapted to be stimulated by said excitation source, wherein said phosphor particles have a weight average particle size of from about 0.1 μ m to about 10 μ m, a substantially spherical morphology and wherein at least about 80 weight percent of said particles are not larger than about two times said average particle size.

Please cancel Claim 99.

- 104. (Amended) A cathodoluminescent display device, comprising:
 - an excitation source having an excitation potential of at least about 20 kV; and
 - b) at least a first layer comprising Zn₂SiO₄ cathodoluminescent phosphor particles adapted to be stimulated by said excitation source, wherein said phosphor particles have a weight average particle size of from about 0.1 µm to about 10 µm, a substantially spherical morphology and wherein at least

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DATE 4-14-65

Palata Director of the	U.S. Patent &	Trademark Office \$	100 7/4
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Anomey: DFD/vlp

Date: April 15, 2005

PTO Stamp indicates receipt of.

[X] Patent Matter

[] Trademark Matter

Application Docket No.: 41890-01280

Applicant HAMPDEN-SMITH et al.

Tide of Mark: CATHODOLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKINO PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME

Serial/Rog. No.: 6,875,372 Bi Filed/lesued Date: April 5, 2005 [X] Ctrtificate of Mailing

No. of Pages in Specification

No. of Pages in Claims No. of Pages in Abstract

[] Express Mail No.: (X) Check for \$100,00 No. of Sheets of Drawings

LIST ALL DOCUMENTS BEING SENT TO PATENT OFFICE:

- 1. REQUEST FOR CERTIFICATE OF CORRECTION OF ISSUED PATENT
- 2. FORM PTO 1050 IN DUPLICATE
- 3. COPIES OF DOCUMENTATION THAT SUPPORT PATENTEE'S ASSERTIONS

NO.649

D17

Attorney: DFD/vlp

Date: April 15, 2005

PTO Stamp indicates receipt of:

[X] Patent Matter

[] Trademork Matter

Application Docket No.: 41890-01280

Applicant: HAMPDEN-SMITH et al.

Title of Mark: CATHODOLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME

Serial/Reg. No.: 6,875,372 B1 Filed/Issued Date: April 5, 2005 [X] Certificate of Mailing [] Express Mail No.:

(X) Check for \$100.00

APR 1 9 2005

No. of Pages in Specification No. of Pages in Claims No. of Pages in Abstract No. of Sheets of Drawings

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